

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/220,617A

DATE: 09/15/2000
TIME: 06:39:30

(just 5 pages)

INPUT SET: S35851.raw

P#18

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: JOHNSON, EUGENE M
MILBRANDT, JEFFREY D
KOTZBAUER, PAUL T
LAMPE, PATRICIA A
KLEIN, ROBERT
DESAUVAGE, FRED

(ii) TITLE OF INVENTION: PERSEPHIN AND RELATED GROWTH FACTOR

(iii) NUMBER OF SEQUENCES: 242

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: HOWELL & HAFERKAMP, L.C.
(B) STREET: 7733 FORSYTH BOULEVARD, SUITE 1400
(C) CITY: ST. LOUIS
(D) STATE: MO
(E) COUNTRY: USA
(F) ZIP: 63105

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US/09/220,617A
(B) FILING DATE: 24 Dec. 1998
(C) CLASSIFICATION: 435

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: GENDLOFF, ELIE H.
(B) REGISTRATION NUMBER: 44,704
(C) REFERENCE/DOCKET NUMBER: 6029-7976

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 314-727-5188
(B) TELEFAX: 314-727-6092

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 102 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS:

ENTERED

RECEIVED

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51          (D) TOPOLOGY: linear
52
53      (ii) MOLECULE TYPE: protein
54
55
56
57      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
58
59      Ala Arg Leu Gly Ala Arg Pro Cys Gly Leu Arg Glu Leu Glu Val Arg
60      1          5          10          15
61
62      Val Ser Glu Leu Gly Leu Gly Tyr Ala Ser Asp Glu Thr Val Leu Phe
63      20          25          30
64
65
66
67      Arg Tyr Cys Ala Gly Ala Cys Glu Ala Ala Ala Arg Val Tyr Asp Leu
68      35          40          45
69
70      Gly Leu Arg Arg Leu Arg Gln Arg Arg Arg Leu Arg Arg Glu Arg Val
71      50          55          60
72
73      Arg Ala Gln Pro Cys Cys Arg Pro Thr Ala Tyr Glu Asp Glu Val Ser
74      65          70          75          80
75
76      Phe Leu Asp Ala His Ser Arg Tyr His Thr Val His Glu Leu Ser Ala
77      85          90          95
78
79      Arg Glu Cys Ala Cys Val
80      100
81
82      (2) INFORMATION FOR SEQ ID NO:2:
83
84      (i) SEQUENCE CHARACTERISTICS:
85          (A) LENGTH: 100 amino acids
86          (B) TYPE: amino acid
87          (C) STRANDEDNESS:
88          (D) TOPOLOGY: linear
89
90      (ii) MOLECULE TYPE: protein
91
92
93
94      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
95
96      Pro Gly Ala Arg Pro Cys Gly Leu Arg Glu Leu Glu Val Arg Val Ser
97      1          5          10          15
98
99      Glu Leu Gly Leu Gly Tyr Thr Ser Asp Glu Thr Val Leu Phe Arg Tyr
100     20          25          30

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101
102 Cys Ala Gly Ala Cys Glu Ala Ala Ile Arg Ile Tyr Asp Leu Gly Leu
103 35 40 45
104
105 Arg Arg Leu Arg Gln Arg Arg Arg Val Arg Arg Glu Arg Ala Arg Ala
106 50 55 60
107
108 His Pro Cys Cys Arg Pro Thr Ala Tyr Glu Asp Glu Val Ser Phe Leu
109 65 70 75 80
110
111 Asp Val His Ser Arg Tyr His Thr Leu Gln Glu Leu Ser Ala Arg Glu
112 85 90 95
113
114 Cys Ala Cys Val
115 100
116

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 16 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 6
- (D) OTHER INFORMATION: /note= "ANY AMINO ACID"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

Ser Gly Ala Arg Pro Xaa Gly Leu Arg Glu Leu Glu Val Ser Val Ser
1 5 10 15

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 10 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

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151 (ix) FEATURE:
152 (A) NAME/KEY: Modified-site
153 (B) LOCATION: 1
154 (D) OTHER INFORMATION: /note= "ANY AMINO ACID"
155
156 (ix) FEATURE:
157 (A) NAME/KEY: Modified-site
158 (B) LOCATION: 6
159 (D) OTHER INFORMATION: /note= "SERINE OR CYSTEINE"
160
161
162 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
163
164 Xaa Cys Ala Gly Ala Xaa Glu Ala Ala Val
165 1 5 10
166
167 (2) INFORMATION FOR SEQ ID NO:5:
168
169 (i) SEQUENCE CHARACTERISTICS:
170 (A) LENGTH: 23 amino acids
171 (B) TYPE: amino acid
172 (C) STRANDEDNESS:
173 (D) TOPOLOGY: linear
174
175 (ii) MOLECULE TYPE: peptide
176
177
178 (ix) FEATURE:
179 (A) NAME/KEY: Modified-site
180 (B) LOCATION: 1
181 (D) OTHER INFORMATION: /note= "ANY AMINO ACID"
182
183 (ix) FEATURE:
184 (A) NAME/KEY: Modified-site
185 (B) LOCATION: 2
186 (D) OTHER INFORMATION: /note= "ANY AMINO ACID"
187
188 (ix) FEATURE:
189 (A) NAME/KEY: Modified-site
190 (B) LOCATION: 17
191 (D) OTHER INFORMATION: /note= "GLUTAMINE OR GLUTAMIC ACID"
192
193
194 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
195
196 Xaa Xaa Val Glu Ala Lys Pro Cys Cys Gly Pro Thr Ala Tyr Glu Asp
197 1 5 10 15
198
199 Xaa Val Ser Phe Leu Ser Val
200 20

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201
202 (2) INFORMATION FOR SEQ ID NO:6:
203
204 (i) SEQUENCE CHARACTERISTICS:
205 (A) LENGTH: 10 amino acids
206 (B) TYPE: amino acid
207 (C) STRANDEDNESS:
208 (D) TOPOLOGY: linear
209
210 (ii) MOLECULE TYPE: peptide
211
212
213
214 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
215
216 Tyr His Thr Leu Gln Glu Leu Ser Ala Arg
217 1 5 10
218
219 (2) INFORMATION FOR SEQ ID NO:7:
220
221 (i) SEQUENCE CHARACTERISTICS:
222 (A) LENGTH: 197 amino acids
223 (B) TYPE: amino acid
224 (C) STRANDEDNESS:
225 (D) TOPOLOGY: linear
226
227 (ii) MOLECULE TYPE: protein
228
229
230
231 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
232
233 Met Gln Arg Trp Lys Ala Ala Ala Leu Ala Ser Val Leu Cys Ser Ser
234 1 5 10 15
235
236 Val Leu Ser Ile Trp Met Cys Arg Glu Gly Leu Leu Leu Ser His Arg
237 20 25 30
238
239 Leu Gly Pro Ala Leu Val Pro Leu His Arg Leu Pro Arg Thr Leu Asp
240 35 40 45
241
242 Ala Arg Ile Ala Arg Leu Ala Gln Tyr Arg Ala Leu Leu Gln Gly Ala
243 50 55 60
244
245 Pro Asp Ala Met Glu Leu Arg Glu Leu Thr Pro Trp Ala Gly Arg Pro
246 65 70 75 80
247
248 Pro Gly Pro Arg Arg Arg Ala Gly Pro Arg Arg Arg Arg Ala Arg Ala
249 85 90 95
250